Michigan State Employees' Retirement System

A Pension and Other Employee Benefit Trust Fund of the State of Michigan

Summary Annual Report for Fiscal Year 2013



Prepared by

The Office of Retirement Services P.O. Box 30171 Lansing, MI 48909-7671

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About the Michigan State Employees' Retirement System

This report is in compliance with Public Act 314 of 1965, as amended. The contents came from the complete Michigan State Employees' Retirement System 2013 Comprehensive Annual Financial Report (CAFR), an existing public data source available on our website at **www.michigan.gov/orsstatedb**, and additional analysis performed after September 30, 2013.

The Michigan State Employees' Retirement System serves 56,854 retirees receiving monthly benefits, and 16,475 active members. State employee pensions are protected by Michigan's Constitution. The System's net assets are held in trust to meet future benefit payments.

The State Treasurer is the investment fiduciary and custodian of all investments of the System pursuant to State law.

Michigan State Employees' Retirement System Service Providers

A service provider is any individual, third-party agent or consultant, or other entity that receives direct or indirect compensation for consulting, investment management, brokerage, or custody services related to the system's assets.

Accel Bentall Kennedy Coller Capital
Advent Berkshire Columbia Mar

Advent Berkshire Columbia Management Investment
Aetos Capital BGC Partners Advisors

AEW Capital Management Bivium Capital Partners Cowen & Co.

Affinity BlackRock Inc. Cramer Rosenthal McGlynn

Alliance Bernstein Blackstone Alternative Asset Credit Suisse Group
Ambassador Capital Management Management Credit Suisse/DLJ

Ambassador Capital Management Management Credit Suisse/DLJ

Apax Blackstone Group Crescent

Apollo Capital ManagementBMO Capital MarketsCzech Asset ManagementApollo Global ManagementBNP ParibasD.A. Davidson & Co.ArboretumBNY ConvergexDalmore Capital Limited

Ares BOSC Inc. Deutsche Bank
Argus Brevan Howard Asset Management Devon Self Storage
Artisan Partners Bridgepoint Dodge & Cox

Attucks Asset Management Brockway Moran & Partners Domain Capital Advisors

Austin Ventures BTIG Donald Smith & Company

Avanath Capital Management Cantor Fitzgerald & Co. Doughty Hanson
Avenue International Capital Institutional Services Inc. Dover Street

AXA Capri Capital Partners Drexel Hamilton

Axiom-Asia Cargill Inc. Edens Limited Partnership
Baillie Gifford Funds Carlyle EDF Ventures

Bain Capital Castle Harlan Edgewood Management

Balfour Beatty Group CCMP Elliott Management Corp
Banc Funds Champlain Investment Partners EnTrust Capital

Bank of America/Merrill CIM Group Epoch Investment Partners

Bank of Montreal Citigroup Global Markets Essex Woodlands

Barclays Capital Clarion Partners First Tennessee Financial
Battery Ventures Clarus FirstMark Capital

2

BB&T Capital Markets Clearstone Fisher Investments Institutional Group

BC European Capital CMEA Five Star Realty Partners
Beacon Capital Partners Cobalt Capital Partners Flagship Ventures

Michigan State Employees' Retirement System Service Providers, continued

Ford

Fortross Investment Croun

Fortress Investment Group

Fox Paine Frontenac

FrontPoint Partners Gateway Capital GE Capital Gilford Securities

Glencoe Globespan Goldman Sachs

Green Equity Investors

Grotech GSO H.I.G.

Harbourvest

Healthcare Ventures

Heitman Capital Management Highbridge Principal Strategies Hopen Life Sciences Ventures

HSBC

Huntington Investment Company

Huron

InterWest Partners
Int'l Strategy Investment

Invesco Ltd. JAFCO

JP Morgan Chase

JP Morgan Investment Management

JP Morgan Securities KBS Realty Advisors

Kelso

Kensington Realty Advisors

Kevin Miller Khosla

Kohlberg Kravis Roberts & Co

L&B Realty Advisors Landmark Realty Advisors LaSalle Investment Management Lightspeed Venture Partners

Lion Capital

Lloyds Banking Group Long Point Capital

Loomis Sayles & Company Los Angeles Capital Management

Lowe Enterprises Investment

Management

LSV Asset Management

Marathon London Mastic Group

Matlin Patterson Global Advisors

Menlo Ventures Meritech

Merrill Lynch Pierce Fenner &

Smith LLC Mesirow Financial

Metropolitan West Asset Management

MFR Securities

MFS Institutional Advisors Mischler Financial Group

Morgan Stanley

MPM

Multi-Bank Securities

Munder Capital Management

New Leaf Ventures Nordic Capital North Castle Partners NorthPointe Capital

NV Partners

Oak Investment Partners

Oaktree

Off the Record (OTR Global)

One Liberty
Oppenheimer
Orion/Red Kite
OTA Ltd Partnership

P. Schoenfeld Asset Management

Paine & Partners
Paladin Realty Partners
Parallel Resource Partners

Parthenon Peninsula Permira

Philadelphia Financial Life Assurance

Company

Phoenix Equity Partners

Primus

Principal Capital

Principal Financial Group

Property & Portfolio Research, Inc

Proprium Capital Partners Providence Equity Partners

Prudential Investment Management

Pyramis Global Advisors

Questor

Raymond James & Associates

RBC Capital Markets

Renaissance Venture Capital

RFE

Rialto Capital Ridgewood Energy

Riverside RV Kuhns RW Baird

RW Pressprich & Co. Sanford C. Bernstein Co. Seizert Capital Partners

SG Americas (Societe Generale)

Silver Lake Societe Generale Southwest Securities

Sprout

State Street Bank

State Street Global Advisors

Sterne Agee

Stifel Nicolaus & Co. Stockbridge Capital Group Sun Trust, Robinson, Humphrey

TCW

Templeton International Trust Fund

The John Buck Company
The Shansby Group

TPG Trilantic

True North Management Group

Tullis Dickerson UBS Financial Services

UBS Securities

Unitas

Warburg Pincus Wayne Co.

Weiss, Peck & Greer

Wellington Management Company

Wellington Trust Company Wells Fargo & Company Wells Fargo Securities LLC

WestAm

Western National Group Williams Capital Group

Windpoint

Winnington Capital Limited Woodcreek Capital Management

Membership

Members of the system include employees of the State of Michigan and its noncentral agencies as listed below:

- Classified or unclassified state employees, including civil service employees, appointed officials in the executive branch, and employees of the legislature and judiciary branch.
- Employees who work for the Business Enterprise Program, Mackinac Island State Park, or Michigan State Bar and were hired before March 31, 1997.
- Employees hired before October 1, 1996, and employed by the American Legion, American Veterans, Disabled American Veterans, Marine Corps League, Military Order of the Purple Heart, Wayne County Clerk Recorders Court, Third Circuit Court, or 36th District Court.

Plan Membership and Retiremer as of September 30, 2	owances
Membership	FY 2013
Retirees and Beneficiaries Currently Receiving Benefits	
Regular Benefits	46,436
Survivor Benefits	6,926
Disability Benefits	3,492
Total	56,854
Current Employees	
Vested	16,105
Non-vested	370
Total	16,475
Current Employees	
Active in Defined Contribution Pension Plan	437
Inactive Employees	
Entitled to benefits and not yet receiving them	4,897
Total All Members	78,663
Source: CAFR for the Fiscal Year ended September 30, 2013, p. 22.	
Retirement Allowances	FY 2013
Average annual retirement allowance	\$ 20,673
Total annual retirement allowances being paid	\$ 1,175,329
Source: Actuarial Valuation for the Fiscal Year ended September 30, 2013.	

Benefit Structures

Employees who began state employment before March 31, 1997, and did not choose to transfer to the Defined Contribution (DC) plan under Public Act 487 of 1996, are in the Defined Benefit (DB) plan.

Effective March 31, 1997, Public Act 487 of 1996 closed the DB plan to new members. All new employees become participants in the DC plan.

On December 15, 2011, the Governor signed Public Act 264 of 2011 into law. This law added provisions for DB plan members to increase, maintain, or stop their contributions to the pension fund. Those who stopped their contributions to the pension fund switched to a defined contribution plan for the remainder of their careers.

Assets & Liabilities*

System total assets as of September 30, 2013, were \$11.5 billion and were mostly comprised of cash, investments, and contributions due from employers.

Total liabilities as of September 30, 2013, were \$885.6 million and were comprised of accounts payable, deferred revenue, and obligations under securities lending.

System assets exceeded its liabilities at the close of fiscal year 2013 by \$10.6 billion. Total net assets held in trust for pension and Other Post-Employment Benefits (OPEB) increased \$969.3 billion from the previous year, primarily due to net investment gains.**

Assets & Liabilities (combined pension and healthcare)					
Assets		FY 2013*		FY 2012**	
Cash	\$	187,773,560	\$	88,967,266	
Receivables		144,929,605		144,703,429	
Securities Lending Collateral		669,859,393		730,991,161	
Investments		10,469,022,590		9,638,713,588	
Total Assets	\$	11,471,585,148	\$	10,603,375,444	
Liabilities		FY 2013*		FY 2012**	
Accounts Payable and Other Liabilities	\$	33,264,388	\$	45,079,019	
Obligations Under Securities Lending		852,349,610		941,649,478	
Total Liabilities	\$	885,613,998	\$	986,728,497	
Net Assets	\$	10,585,971,150	\$	9,616,646,947	

 $^{*\} Liabilities\ in\ this\ context\ are\ exclusive\ of\ Unfunded\ Accrued\ Actuarial\ Liabilities\ (UAAL)\ for\ pension\ and\ health.$

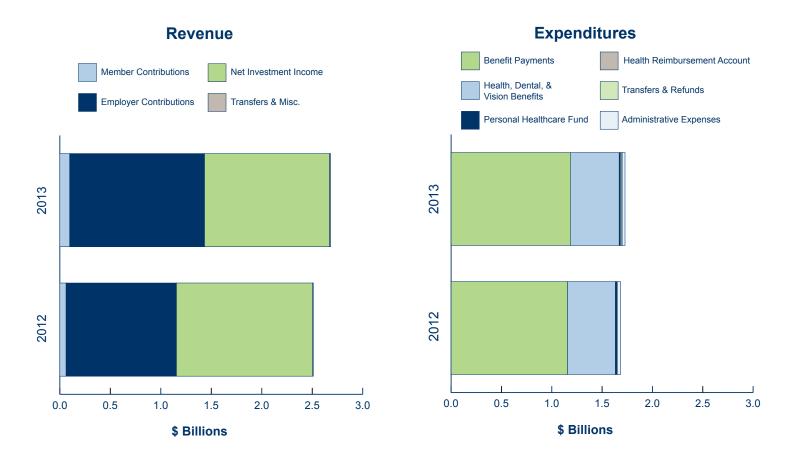
^{**} Source: CAFR for the Fiscal Year ended September 30, 2013, p. 17.

Revenue and Expenditures

The reserves needed to finance pension and OPEB are accumulated through the collection of employer and employee contributions and through earnings on investments. Contributions and net investment income for fiscal year 2013 totaled approximately \$2.7 billion.

The primary expenses of the System include the payment of pension benefits to members and beneficiaries, payment for health, dental and vision benefits, refund of contributions to former members, and the cost of administering the System.*

Additions 0 Deductions							
Additions & Deductions (combined pension and healthcare)							
Additions	u pc	FY 2013*	our c ₎	FY 2012**			
Member Contributions	\$	96,625,344	\$	60,722,700			
Employer Contributions		1,334,708,494		1,092,582,146			
Net Investment Income (loss)		1,239,318,182		1,346,517,003			
Transfers and Misc. Income		681,655		344,267			
Total Additions	\$	2,671,333,675	\$	2,500,166,116			
Deductions		FY 2013*		FY 2012**			
Benefit Payments	\$	1,187,911,357	\$	1,156,035,451			
Health, Dental, & Vision Benefits		481,263,802		475,168,274			
Personal Healthcare Fund		4,433,182		1,340,225			
Health Reimbursement Account		10,126		-			
Transfers & Refunds		128,788		205,830			
Administrative Expenses		28,262,217***		25,872,036***			
Total Deductions	\$	1,702,009,472	\$	1,658,621,816			
Beginning of Year Assets	\$	9,616,646,947	\$	8,775,102,647			
End of Year Net Assets	\$	10,585,971,150	\$	9,616,646,947			
* Source: CAFR for the Fiscal Year ended September 30, 2013, p. 21							
** Source: CAFR for the Fiscal Year ended S		•					
*** Reflects participation in federal programs that provide a federal subsidy for eligible healthcare claims, producing a net overall savings to the System.							

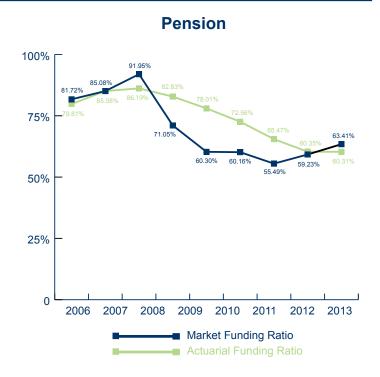


^{*} Source: CAFR for the Fiscal Year ended September 30, 2013, p. 18.

Market Funded Ratios & Actuarial Funded Ratios

Pension

The market funding ratio is based only on the market value of assets at fiscal year end. The actuarial funding ratio incorporates a 5-year "smoothing" period that reduces volatility. The actuarial funding ratio is the common metric used by all pension plans nationwide. This smoothing process is used by almost every retirement system in the country; it helps avoid volatility in the pension systems' funding requirements. As the economy improves, the funding ratio will also improve.

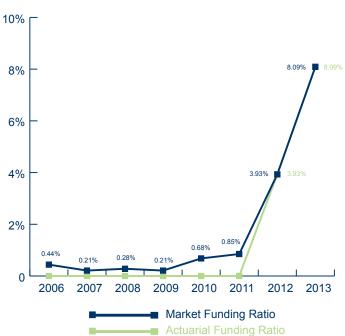


Retiree Healthcare

Starting in 2012, the System began pre-funding retiree healthcare costs, which significantly decreased the liability and increased the asset levels. Pre-funding is a best practice that invests assets and allows investment returns to help fund the plan. Many states do not pre-fund. This reform puts Michigan on the leading edge of retirement funding practices.

Before 2012, the system was funded on a pay-as-you-go basis. While there were some assets set aside, these were counted in the market value, but not the actuarial value. Over time, as pre-funding and member contributions ramp up, the funding ratio will improve significantly.

Retiree Healthcare



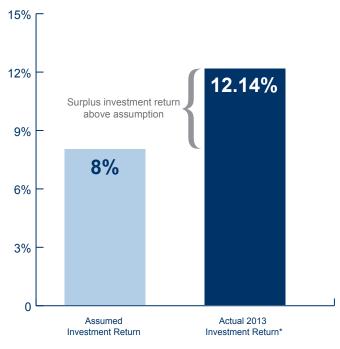
Discount Rates and Actual Investment Return

The State Treasurer administers all of the System's investments in accordance with the Public Employee Retirement System Investment Act, Public Act 314 of 1965. The main objective is maximizing the rate of return while meeting the actuarial assumptions through maintaining a diverse portfolio, eliminating unnecessary risks, and investing prudently.

Contribution rates are determined by actuaries based in part on an assumed investment return each year. When investments exceed the assumed rates of return, as they did in 2013, this results in a gain for the System. The actual rate of investment return in FY 2013 was 12.14 percent*, which is greater than the assumed rate of return.

Investment Return Assumed and Actual

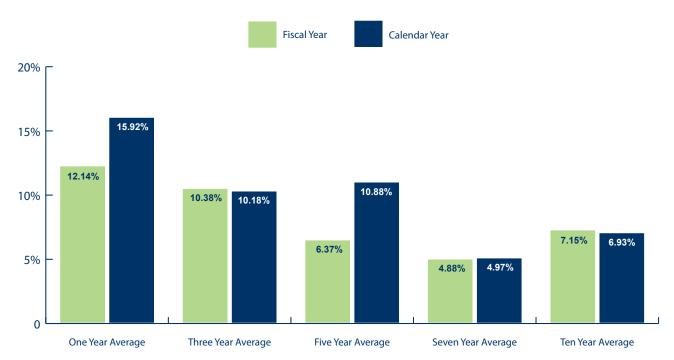
for Fiscal Year 2013



^{*} Source: CAFR for the Fiscal Year ended September 30, 2013, p. 51

Historical Investment Returns

as of Fiscal Year 2013



^{*} These figures are shown net of fees. Information shown in the CAFR is shown gross of fees.

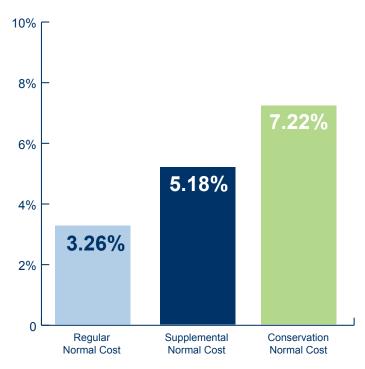
Member and Employer Contributions

Definition of Normal Cost

Normal Cost is the actual cost of the retirement benefit a member earns each year, and is set using the assumed rate of investment return in addition to other actuarial assumptions. After member contributions are accounted for, the employer pays the remainder of the Normal Cost as shown here.

Employer Pension Normal Cost Contribution Rates

for Fiscal Year 2014*



^{*} Based on 2012 Actuarial Valuation.

Member and Employer Pension Contributions Based on FY 2013 **Member Contributions Actuarial Valuation** 4% Weighted Average Based on FY 2013 **Employer Contributions Actuarial Valuation** Computed Normal Cost of benefits 3.22% expressed as a percentage of valuation payroll **UAAL** contribution rate expressed as a percentage of valuation payroll 47.17%* Valuation Payroll For Defined Benefit employees 1,071,366,890** Payroll associated with Defined Contribution employees \$ 1,872,442,329 Total payroll used to collect UAAL 2,943,809,219 * If calculating this rate with the total payroll used to collect UAAL, the rate would be 17.17%. This is a better indication of how the contribution rate will be charged.

**UAAL costs are spread over the payroll associated with both DB and DC employees.

Receipt of Employer Contributions

The statute requires the employer to contribute to finance the benefits of plan members. These employer contributions are determined annually by the System's actuary and are based upon level-dollar value funding principles so the contribution rates do not have to increase over time. Differences between the Annual Required Contribution (ARC) and the actual contributions are the result of a timing difference between when the actuarial valuation is completed and the contributions are made.

Administrative and Other Expenses		Dollars	% of Total
These expenditures are the administrative costs of running the retirement system, and are particularly the retirement system, and are particularly the retirement system.	paid by L		
Services through an annual appropriation.			
Personnel Services	•	4 070 400	0.070500/
Staff Salaries	\$	1,379,139	0.07953%
Retirement and Social Security		666,499	0.03843%
Other Fringe Benefits	_	239,050	0.01379%
Total	\$	2,284,688	0.13175%
Professional Services			
Accounting	\$	253,316	0.01461%
Actuarial		107,240	0.00618%
Attorney General		375,097	0.02163%
Audit		54,695	0.00315%
Consulting		58,379	0.00337%
Medical		181,675	0.01048%
Total	\$	1,030,402	0.05942%
Building and Equipment			
Building Rentals	\$	179,698	0.01036%
Equipment Purchase, Maintenance, and Rentals		11,541	0.00067%
Total	\$	191,239	0.01103%
Miscellaneous			
Travel and Board Meetings (Excluding Travel and Education for Board Members)	\$	8,536	0.00049%
Office Supplies		9,227	0.00053%
Postage, Telephone, and Other		554,684	0.03199%
Printing		63,104	0.00364%
Technological Support		1,516,277	0.08744%
Subtotal	\$	2,151,828	0.12409%
Travel and Education for Board Members	\$	159	0.00001%
Total	\$	2,151,987	0.12410%
Total Administrative and Other Expenses	\$	5,658,318	0.32629%
Health Dantal & Vision Food		Dellara	0/ of Total
Health, Dental & Vision Fees	- ! -! - !	Dollars	% of Total
These expenditures are for self-insurance of the health, dental, and vision plans, and are pa		•	
Staff Salaries	\$	587,514	0.03388%
Health Fees		19,855,750	1.14501%
		1,659,991	0.09573%
Vision Fees		500,644	0.02887%
Vision Fees	\$		
Vision Fees Total Health, Dental & Vision Fees Investment Expenses		500,644 22,603,899 Dollars	0.02887% 2.76272% % of Total
Dental Fees Vision Fees Total Health, Dental & Vision Fees Investment Expenses Investment Expenses The expenditures are related to the Department of Treasury (Bureau of Investments) for the partment of Treasury (Bureau of Investments) for the B		500,644 22,603,899 Dollars	0.02887% 2.76272% % of Total
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Vision Fees Total Health, Dental & Vision Fees Investment Expenses These expenditures are related to the Department of Treasury (Bureau of Investments) for retirement system's trust fund. Real Estate Operating Expenses		500,644 22,603,899 Dollars g the retirement system's a 255,460	0.02887% 2.76272% % of Total assets, and are paid from the 0.01473%
Vision Fees Total Health, Dental & Vision Fees Investment Expenses These expenditures are related to the Department of Treasury (Bureau of Investments) for retirement system's trust fund. Real Estate Operating Expenses Securities Lending Expenses	managin	500,644 22,603,899 Dollars g the retirement system's	0.02887% 2.76272% % of Total assets, and are paid from the
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Vision Fees Total Health, Dental & Vision Fees Investment Expenses These expenditures are related to the Department of Treasury (Bureau of Investments) for treatirement system's trust fund. Real Estate Operating Expenses Securities Lending Expenses Other Investment Expenses ORS-Investment Expenses Custody Fees Management Fees Research Fees Total Investment Expenses Benefits Paid to Members	managin \$	500,644 22,603,899 Dollars g the retirement system's . 255,460 2,632,828 3,069,871 192,939 25,415,270 537,029 32,103,397	0.02887% 2.76272% % of Total assets, and are paid from the 0.01473% 0.15183% 0.17703% 0.01113% 1.46560% 0.03097% 1.85128%
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Vision Fees Total Health, Dental & Vision Fees Investment Expenses These expenditures are related to the Department of Treasury (Bureau of Investments) for retirement system's trust fund. Real Estate Operating Expenses Securities Lending Expenses Other Investment Expenses ORS-Investment Expenses Custody Fees Management Fees Research Fees Total Investment Expenses Benefits Paid to Members These are the projected retirement benefits paid to members of the retirement system. Retirement Benefits Dental/Vision Benefits Personal Healthcare Fund Health Reimbursement Account Refunds of Member Contributions	managin \$	500,644 22,603,899 DollarS g the retirement system's 255,460 2,632,828 3,069,871 192,939 25,415,270 537,029 32,103,397 DollarS 1,187,911,357 440,159,387 41,104,415 4,433,182 10,126 119,992	0.02887% 2.76272% % of Total assets, and are paid from the 0.01473% 0.15183% 0.17703% 0.01113% 1.46560% 0.03097% 1.85128% % of Total 68.50245% 25.38236% 2.37034%
Vision Fees Total Health, Dental & Vision Fees Three expenditures are related to the Department of Treasury (Bureau of Investments) for tretriement system's trust fund. Real Estate Operating Expenses Securities Lending Expenses Orther Investment Expenses Orther Investment Expenses Custody Fees Management Fees Research Fees Total Investment Expenses Benefits Paid to Members These are the projected retirement benefits paid to members of the retirement system. Retirement Benefits Dental/Vision Benefits Personal Healthcare Fund Health Reimbursement Account Refunds of Member Contributions Total Payments to Members	managin \$	500,644 22,603,899 Dollars g the retirement system's. 255,460 2,632,828 3,069,871 192,939 25,415,270 537,029 32,103,397 Dollars 1,187,911,357 440,159,387 41,104,415 4,433,182 10,126 119,992 1,673,738,459	0.02887% 2.76272% % of Total assets, and are paid from the 0.01473% 0.15183% 0.17703% 0.01113% 1.46560% 0.03097% 1.85128% % of Total 68.50245% 25.38236% 2.37034% 0.00692% 96.51830%
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Investment Expenses These expenditures are related to the Department of Treasury (Bureau of Investments) for tretriement system's trust fund. Real Estate Operating Expenses Securities Lending Expenses Orther Investment Expenses Orther Investment Expenses Orther Investment Expenses Custody Fees Management Fees Research Fees Total Investment Expenses Benefits Paid to Members These are the projected retirement benefits paid to members of the retirement system. Retirement Benefits Personal Healthcare Fund Health Reimbursement Account Refunds of Member Contributions Total Payments to Members Soft Dollar Expenses These expenditures are for research provided by the retirement system's service providers	**************************************	500,644 22,603,899 Dollars g the retirement system's. 255,460 2,632,828 3,069,871 192,939 25,415,270 537,029 32,103,397 Dollars 1,187,911,357 440,159,387 41,104,415 4,433,182 10,126 119,992 1,673,738,459 Dollars	0.02887% 2.76272% % of Total assets, and are paid from the 0.01473% 0.15183% 0.17703% 0.01113% 1.46560% 0.03097% 1.85128% % of Total 68.50245% 25.38236% 2.37034% 0.00692% 96.51830% % of Total
Vision Fees Total Health, Dental & Vision Fees Investment Expenses These expenditures are related to the Department of Treasury (Bureau of Investments) for retirement system's trust fund. Real Estate Operating Expenses Securities Lending Expenses Orther Investment Expenses ORS-Investment Expenses Custody Fees Management Fees Research Fees Total Investment Expenses Benefits Paid to Members These are the projected retirement benefits paid to members of the retirement system. Retirement Benefits Health Benefits Dental/Vision Benefits Personal Healthcare Fund Health Reimbursement Account Refunds of Member Contributions Total Payments to Members Soft Dollar Expenses These expenditures are for research provided by the retirement system's service providers	**************************************	500,644 22,603,899 Dollars g the retirement system's. 255,460 2,632,828 3,069,871 192,939 25,415,270 537,029 32,103,397 Dollars 1,187,911,357 440,159,387 41,104,415 4,433,182 10,126 119,992 1,673,738,459 Dollars	0.02887% 2.76272% % of Total assets, and are paid from the 0.01473% 0.15183% 0.17703% 0.01113% 1.46560% 0.03097% 1.85128% % of Total 68.50245% 25.38236% 2.37034% 0.00692% 96.51830% % of Total
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Vision Fees Total Health, Dental & Vision Fees Investment Expenses These expenditures are related to the Department of Treasury (Bureau of Investments) for treatirement system's trust fund. Real Estate Operating Expenses Securities Lending Expenses Other Investment Expenses Other Investment Expenses Custody Fees Management Fees Research Fees Total Investment Expenses Benefits Paid to Members These are the projected retirement benefits paid to members of the retirement system. Retirement Benefits Dental/Vision Benefits Personal Healthcare Fund Health Reimbursement Account Refunds of Member Contributions Total Payments to Members Soft Dollar Expenses These expenditures are for research provided by the retirement system's service providers Bass Trading Int'l Group (BTIG)	s \$	500,644 22,603,899 Dollars g the retirement system's 255,460 2,632,828 3,069,871 192,939 25,415,270 537,029 32,103,397 Dollars 1,187,911,357 440,159,387 41,104,415 4,433,182 10,126 119,992 1,673,738,459 Dollars incorporated into the broken	0.02887% 2.76272% % of Total assets, and are paid from the 0.01473% 0.15183% 0.17703% 0.01113% 1.46560% 0.03097% 1.85128% % of Total 68.50245% 25.38236% 2.37034% 0.00692% 96.51830% % of Total erage fees and commissions.
Vision Fees Total Health, Dental & Vision Fees Investment Expenses These expenditures are related to the Department of Treasury (Bureau of Investments) for treatirement system's trust fund. Real Estate Operating Expenses Securities Lending Expenses Other Investment Expenses Other Investment Expenses Custody Fees Management Fees Research Fees Total Investment Expenses Benefits Paid to Members These are the projected retirement benefits paid to members of the retirement system. Retirement Benefits Health Benefits Dental/Vision Benefits Personal Healthcare Fund Health Reimbursement Account Refunds of Member Contributions Total Payments to Members Soft Dollar Expenses These expenditures are for research provided by the retirement system's service providers Bass Trading Int'l Group (BTIG) The Wall Street Transcript	s \$	500,644 22,603,899 Dollars g the retirement system's 255,460 2,632,828 3,069,871 192,939 25,415,270 537,029 32,103,397 Dollars 1,187,911,357 440,159,387 41,104,415 4,433,182 10,126 119,992 1,673,738,459 Dollars incorporated into the broken	0.02887% 2.76272% % of Total assets, and are paid from the 0.01473% 0.15183% 0.17703% 0.01113% 1.46560% 0.03097% 1.85128% % of Total 68.50245% 25.38236% 2.37034% 0.00692% 96.51830% % of Total erage fees and commissions. 0.00004%
Vision Fees Total Health, Dental & Vision Fees Investment Expenses These expenditures are related to the Department of Treasury (Bureau of Investments) for retirement system's trust fund. Real Estate Operating Expenses Securities Lending Expenses Order Investment Expenses Order Investment Expenses Order Investment Expenses Custody Fees Management Fees Research Fees Total Investment Expenses Benefits Paid to Members These are the projected retirement benefits paid to members of the retirement system. Retirement Benefits Health Benefits Dental/Vision Benefits Personal Healthcare Fund Health Reimbursement Account Refunds of Member Contributions Total Payments to Members Soft Dollar Expenses These expenditures are for research provided by the retirement system's service providers Bass Trading Int'l Group (BTIG) The Wall Street Transcript Gary Schilling Newsletter	s \$	500,644 22,603,899 DollarS g the retirement system's 255,460 2,632,828 3,069,871 192,939 25,415,270 537,029 32,103,397 DollarS 1,187,911,357 440,159,387 41,104,415 4,433,182 10,126 119,992 1,673,738,459 DollarS incorporated into the broken	0.02887% 2.76272% % of Total assets, and are paid from the 0.01473% 0.15183% 0.17703% 0.01113% 1.46560% 0.03097% 1.85128% % of Total 68.50245% 25.38236% 2.37034% 0.00692% 96.51830% % of Total erage fees and commissions. 0.00004% 0.00001%
Vision Fees Total Health, Dental & Vision Fees Investment Expenses These expenditures are related to the Department of Treasury (Bureau of Investments) for retirement system's trust fund. Real Estate Operating Expenses Securities Lending Expenses Other Investment Expenses ORS-Investment Expenses Custody Fees Management Fees Research Fees Total Investment Expenses Benefits Paid to Members These are the projected retirement benefits paid to members of the retirement system. Retirement Benefits Health Benefits Dental/Vision Benefits Personal Healthcare Fund Health Reimbursement Account Refunds of Members Soft Dollar Expenses These expenditures are for research provided by the retirement system's service providers Bass Trading Int'l Group (BTIG) The Wall Street Transcript Gary Schilling Newsletter Grant's Interest Rate Observer	s \$	500,644 22,603,899 DollarS g the retirement system's at 255,460 2,632,828 3,069,871 192,939 25,415,270 537,029 32,103,397 DollarS 1,187,911,357 440,159,387 41,104,415 4,433,182 10,126 119,992 1,673,738,459 DollarS incorporated into the broken 703 97 149	0.02887% 2.76272% % of Total assets, and are paid from the 0.01473% 0.15183% 0.17703% 0.01113% 1.46560% 0.03097% 1.85128% % of Total 68.50245% 25.38236% 2.37034% 0.00692% 96.51830% % of Total erage fees and commissions. 0.00004% 0.00001% 0.00001%
Vision Fees Total Health, Dental & Vision Fees Investment Expenses These expenditures are related to the Department of Treasury (Bureau of Investments) for retirement system's trust fund. Real Estate Operating Expenses Securities Lending Expenses ORS-Investment Expenses ORS-Investment Expenses Custody Fees Management Fees Research Fees Total Investment Expenses Benefits Paid to Members These are the projected retirement benefits paid to members of the retirement system. Retirement Benefits Dental/Vision Benefits Personal Healthcare Fund Health Reimbursement Account Refunds of Members Soft Dollar Expenses These expenditures are for research provided by the retirement system's service providers Bass Trading Int'l Group (BTIG) The Wall Street Transcript Gary Schilling Newsletter Grant's Interest Rate Observer Macro Mavens Newsletter	s \$	500,644 22,603,899 DollarS g the retirement system's at 255,460 2,632,828 3,069,871 192,939 25,415,270 537,029 32,103,397 DollarS 1,187,911,357 440,159,387 41,104,415 4,433,182 10,126 119,992 1,673,738,459 DollarS incorporated into the broken 703 97 149 8,790	0.02887% 2.76272% % of Total assets, and are paid from the 0.01473% 0.15183% 0.17703% 0.01113% 1.46560% 0.03097% 1.85128% % of Total 68.50245% 25.38236% 2.37034% 0.00692% 96.51830% % of Total erage fees and commissions. 0.00004% 0.00001% 0.00001% 0.00001%

Budget for Pension Plan Expenses for Fiscal	Yea	r Ending Septe	mber 30, 2014
Administrative and Other Expenses		Dollars	% of Total
These expenditures are the administrative costs of running the retirement system, and are	paid by	DTMB-Office of Retiremen	t Services and DTMB-Financial
Services through an annual appropriation.			
Personnel Services	•	4.475.040	0.000000/
Staff Salaries	\$	1,175,646	0.06636%
Retirement and Social Security		277,378	0.01566%
Other Fringe Benefits		830,315	0.04687%
Total	\$	2,283,339	0.12889%
Professional Services			
Accounting	\$	285,176	0.01610%
Actuarial		102,700	0.00580%
Attorney General		332,940	0.01879%
Audit		54,785	0.00309%
Consulting		58,400	0.00330%
Medical		194,850	0.01100%
Total	\$	1,028,851	0.05808%
uilding and Equipment			
Building Rentals	\$	183,300	0.01035%
Equipment Purchase, Maintenance, and Rentals		6,801	0.00038%
Total	\$	190,101	0.01073%
fiscellaneous	-	100,101	
Travel and Board Meetings (Excluding Travel and Education for Board Members)	\$	6,195	0.00035%
Office Supplies	Ψ	5,747	0.00033%
Postage, Telephone, and Other		441,817	0.00032%
		•	
Printing Tackmalarical Council		53,400	0.00301%
Technological Support	_	1,607,254	0.09073%
Subtotal	\$	2,114,413	0.11935%
Travel and Education for Board Members	\$	130	0.00001%
Total	\$	2,114,543	0.11936%
otal Administrative and Other Expenses	\$	5,616,834	0.31706 %
lealth, Dental & Vision Fees		Dollars	% of Total
hese expenditures are for self-insurance of the health, dental, and vision plans, and are p	aid fron	n the retirement system's tr	ust fund.
taff Salaries	\$	613,787	0.03465%
lealth Fees		20,679,764	1.16733%
ental Fees		1,728,881	0.09759%
ision Fees		512,159	0.02891%
otal Health, Dental & Vision Fees	\$	22,920,804	1.29384%
nvestment Expenses		Dollars	% of Total
•	monogi		
hese expenditures are related to the Department of Treasury (Bureau of Investments) for etirement system's trust fund.	managi	ing the retirement system s	assets, and are paid from the
teal Estate Operating Expenses	\$	268.233	0.01514%
securities Lending Expenses	•	2,764,469	0.15605%
Other Investment Expenses		2,701,100	0.1000070
ORS-Investment Expenses		3,655,874	0.20637%
•			0.20037 %
Custody Fees		237,795	
Management Fees		26,686,034	1.50638%
Research Fees	_	563,880	0.03183%
otal Investment Expenses	\$	34,176,285	1.92919%
Benefits Paid to Members		Dollars	% of Total
hese are the projected retirement benefits paid to members of the retirement system.			
etirement Benefits	\$	1,214,097,723	68.53347%
ealth Benefits		448,168,926	25.29827%
ental/Vision Benefits		44,322,234	2.50190%
ersonal Healthcare Fund		2,124,612	0.11993%
ealth Reimbursement Account		17,112	0.00097%
efunds of Member Contributions		84,315	0.00476%
	\$	1,708,814,922	96.45930%
otal Payments to Members		Dollars	% of Total
·		LIMITARE	76 OT LOTAL
Soft Dollar Expenses	and a		
Soft Dollar Expenses hese expenditures are for research provided by the retirement system's service providers	and are		
Soft Dollar Expenses these expenditures are for research provided by the retirement system's service providers ass Trading Int'l Group (BTIG)		e incorporated into the brok	erage fees and commissions.
Soft Dollar Expenses these expenditures are for research provided by the retirement system's service providers trading Int'l Group (BTIG) The Wall Street Transcript	and are	e incorporated into the brok	erage fees and commissions. 0.00004%
Soft Dollar Expenses These expenditures are for research provided by the retirement system's service providers Bass Trading Int'l Group (BTIG) The Wall Street Transcript Gary Schilling Newsletter		e incorporated into the brok 703 97	0.00004% 0.00001%
Soft Dollar Expenses These expenditures are for research provided by the retirement system's service providers Bass Trading Int'l Group (BTIG) The Wall Street Transcript Gary Schilling Newsletter Macro Mavens Newsletter		e incorporated into the brok 703 97 8,790	0.00004% 0.00001% 0.00050%
Gary Schilling Newsletter		e incorporated into the brok 703 97	0.00004% 0.00001%

Actuarial Assumptions

Actuarial valuations for both the pension and OPEB plans involve estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future. Examples include assumptions about future employment, mortality and the healthcare cost trend. Amounts determined regarding the funded status of the plan and the annual required contributions (ARC) are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future.

Actuarial Assumptions for Fisc	al Year Ending	September 30	, 2013

Valuation Date 9/30/2012

Actuarial Cost Method Entry Age, Normal

Amortization Method - Pension Level Dollar, Closed

Amortization Method - OPEB Level Percent of Payroll, Closed

Asset Valuation Method - Pension 5-Year Smoothed Market

Asset Valuation Method - OPEB Market

Actuarial Assumptions Wage Inflation Rate

Remaining Amortization Period

Wage Inflation Rate 3.5%
Investment Rate of Return - Pension 8.0%
Investment Rate of Return - OPEB 8.0%
Projected Salary Increases 3.5 - 12.5%

3% Annual Non-Compounded with Maximum Annual Cost-of-Living Pension Adjustments Increase of \$300 for those eligible

Healthcare Cost Trend Rate

9.0% Year 1 graded to 3.5% Year 10

Other Assumptions OPEB Only² FY 2013

Opt out Assumption 10% of eligible participants are assumed to opt out

of the retiree health plan

Survivor Coverage 80% of male retirees and 67% of female retirees

are assumed to have coverage continuing after the

24 Years¹

FY 2013

retiree's death

Coverage Election at Retirement 75% of male and 60% of female future retirees are

assumed to elect coverage for 1 or more dependents

1 Based on the provision of GASB Statement Nos. 25, 43 and 45 when the actuarial accrued liability for a defined benefit pension plan is underfunded or overfunded, the difference should be amortized over a period not to exceed thirty years for the fiscal periods beginning on or after June 15, 2006.

2 Applies to individuals hired before January 1, 2012.

Source: CAFR for the Fiscal Year ended September 30, 2013, p. 33.

Office Closures

May 26 – Memorial Day July 4 – Independence Day September 1 – Labor Day

Our website is available seven days a week, even when our office is closed: www.michigan.gov/orsstatedb

Office of Retirement Services (ORS)

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Office of Retirement Services

Director Phil Stoddard

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